

What is claimed is:

1. An apparatus formed to fix a thermoplastic mask to a patient, the apparatus comprising:

5 a member formed to be positioned adjacent to a cranio facial bone of the patient,

a fixation member coupled to the member, and

a fastener plate formed to couple the mask to the fixation member so that the member is in a fixed position relative to the mask.

10 2. The apparatus of claim 1 wherein the fixation member includes an attachment portion coupled to the member and a plate spaced-apart from the attachment portion.

3. The apparatus of claim 2 wherein the fixation member further includes fasteners extending from the plate for engagement with the fastener plate.

4. The apparatus of claim 4 wherein the fasteners include teeth.

15 5. The apparatus of claim 5 wherein the fasteners include a tab and posts extending from the plate.

6. The apparatus of claim 2 further comprising a spacer positioned to lie between the fixation member and the fastener plate.

7. The apparatus of claim 2 wherein the member is a mouthpiece.

20 8. The apparatus of claim 1 wherein the fixation member includes a plate and at least one fastener extending from the plate, the fastener cooperating with the fastener plate to couple the member to the fastener plate.

9. The apparatus of claim 8 wherein the at least one fastener includes teeth.

25 10. The apparatus of claim 8 further comprises at least one spacer positioned to lie between the fixation member and the fastener plate.

11. The apparatus of claim 8 wherein the member is an earplug.

12. The apparatus of claim 8 wherein the member is a nose block.

30 13. An apparatus formed to fix a thermoplastic mask to a patient, the apparatus comprising:

a mouthpiece member,

a fixation member coupled to the mouthpiece member, the fixation member including a plate and at least one fastener extending away from the plate, and

a fastener plate formed for attachment with the at least one fastener so that the mask is coupled between the plate and the fastener plate.

14. The apparatus of claim 13 wherein the at least one fastener includes teeth.

5            15.    The apparatus of claim 14 wherein the fixation member includes two fasteners.

16. An assembly formed to immobilize a patient's skull during a medical procedure, the assembly comprising:

10 a mouthpiece member coupled to the thermoplastic mask.

17. The assembly of claim 16 wherein the mask and mouthpiece member are coupled together with a fixation member and a fastener plate.

18. The assembly of claim 17 wherein the mask and mouthpiece member are coupled together with an adhesive.

15           19.     An assembly formed to immobilize a patient's skull during a medical  
                  procedure, the assembly comprising:

a thermoplastic mask and  
an earplug member formed for extension into the auditory canal, the earplug member being coupled to the thermoplastic mask.

20            20.     The apparatus of claim 19 wherein the wherein the mask and earplug member are coupled together with a fixation member and a fastener plate.

21. The assembly of claim 19 wherein the mask and earplug member are coupled together with an adhesive.

22. An assembly formed to immobilize a patient's skull during a medical  
25 procedure, the assembly comprising:

a thermoplastic mask and  
a nose block member formed to be positioned on a nasal bridge of the patient,  
the nose block member being coupled to the thermoplastic mask.

23. The apparatus of claim 22 wherein the wherein the mask and earplug  
30 member are coupled together with a fixation member and a fastener plate.

24. The assembly of claim 22 wherein the mask and earplug member are coupled together with an adhesive.

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